|                    | Index of Claims |          |          |          |           |          |             |          |                 |           |                              | 1        | Application No. |          |          |                     |           |          |                 |            |          | Applicant(s) |            |                |                 |           |          |          |          |              |
|--------------------|-----------------|----------|----------|----------|-----------|----------|-------------|----------|-----------------|-----------|------------------------------|----------|-----------------|----------|----------|---------------------|-----------|----------|-----------------|------------|----------|--------------|------------|----------------|-----------------|-----------|----------|----------|----------|--------------|
|                    |                 |          |          |          |           |          | Ex          |          |                 |           |                              |          |                 | xa       | miner    |                     |           |          |                 |            |          |              |            | Art Unit       |                 |           |          |          |          |              |
|                    |                 |          | /        | Rej      | ect       | ted      |             |          |                 |           | (Through numera<br>Cancelled |          |                 | ral)     | al)      |                     | N         | N        | Non-Elec        |            | cted     |              | Α          | Appeal         |                 |           |          | 7        |          |              |
|                    |                 | =        | = /      | Allo     | -wc       | ed       |             |          | +               |           | R                            | esti     | icte            | ed       |          |                     |           | 1        | In              | terf       | ere      | nce          |            | 0              |                 | Ob        | jec      | cted     | <br>t    |              |
|                    | laim            | Γ        |          |          |           | Dat      | e           |          |                 | $\neg$    | C                            | laim     | im              |          |          | -                   | Date      |          |                 |            |          |              |            | _              | _               | _         |          |          |          |              |
| _                  | ᅙ               |          |          |          |           | Γ        |             |          |                 | ٦         |                              | $\top$   | 1               | T        |          | Ĭ                   | T         |          | $\neg$          | Т          | 1        | -            | laim<br>_  | $\vdash$       | $\neg$          | _         | 무        | ate      |          | _            |
| Final              |                 |          |          |          |           |          |             |          |                 |           | Final                        | Original |                 |          |          |                     |           |          |                 |            |          | Final        | Original   |                |                 |           |          |          |          |              |
| <u> </u>           | R               | -        | 1        | -        |           |          |             |          |                 | $\exists$ |                              | 51       |                 |          |          | _                   | $\exists$ | 1        |                 | +          | 1        |              | 101        | $\vdash$       | +               | +         | +        | +        | +        | +            |
| , - <del>  -</del> | 3               | $\vdash$ | +        | $\vdash$ | -         | -        | -           | H        | -               | $\dashv$  |                              | 52<br>53 |                 | H        |          | _                   | 4         | $\perp$  | _[              |            |          |              | 102        |                | 1               |           | $^{+}$   | +        | 十        | +-           |
|                    | 4               |          |          |          |           | 1        |             | Н        | $\dashv$        | $\dashv$  | -                            | 54       |                 | Н        | ┰┼       | +                   | $\dashv$  |          | - -             | +          | H        |              | 103        | $\vdash$       | $\bot$          | $\perp$   | I        |          |          |              |
|                    | 1               | L        |          |          |           |          |             |          |                 | ]         |                              | 55       | +               |          | _        | +                   | +         | +        | +               | ╁          | 1        |              | 104<br>105 | $\vdash$       |                 | +-        | +        | 4-       | 4        | $\downarrow$ |
| -                  | 6               | ⊢        | ╁        | Н        | ļ.,,      |          |             |          | $\perp$         | 4         |                              | 56       |                 |          |          |                     | 士         |          | +               | +          | 1 1      |              | 106        | $\vdash$       | +               | ╁         | +        | ╁        | +-       | +            |
|                    | 8               | -        | 1-       | Н        |           | Н        |             | $\dashv$ |                 | -         |                              | 57       | 1_              |          | $\perp$  | $\perp$             | $\prod$   | I        | $\perp$         |            | 1 1      |              | 107        |                | +               | $\top$    | +        | +-       | +        | ╁            |
|                    | 9               | -        | $\vdash$ |          |           | Н        | -           | $\dashv$ | +               | $\dashv$  | -                            | 58<br>59 | ╀               | $\vdash$ | +        | +                   | 4         | +        | +               | $\bot$     |          |              | 108        |                | $\perp$         | 工         | I        |          |          |              |
|                    | 10              |          |          |          |           |          |             |          |                 | 7         |                              | 60       | ╁               | $\vdash$ | $\dashv$ | -                   | ╁         | ╁        | +               | +          |          |              | 109        | _              | 4               | 4         | $\bot$   | _        | 4_       | L            |
|                    | 11              | _        | _        | _        | _         |          | $\Box$      | $\Box$   | $\Box$          | ]         |                              | 61       |                 |          | $\dashv$ | 1                   | +         | +        | +               | +          |          | $\dashv$     | 110<br>111 | -              | +               | +         | ╀        | +        | ┼        | $\vdash$     |
|                    | 12              |          | ┦        | $\dashv$ | 4         | -        | -+          | -        | 4               | 4         |                              | 62       |                 |          |          |                     |           |          |                 |            |          | $\neg \neg$  | 112        | +              | ╁               | ╁         | +        | ╁        | ╁        | -            |
|                    | 14              |          | $\vdash$ | +        | $\dashv$  | ┰        | -+          | $\dashv$ | +               | $\dashv$  | $\vdash$                     | 63<br>64 |                 | -        | +        | +                   | $\bot$    | 1        | 4               | $\bot$     |          | $\Box$       | 113        |                |                 | I         | T        | †        | +        | $\vdash$     |
|                    | 14              |          |          |          | 7         | 7        | 7           |          | +               | 1         |                              | 65       | $\vdash$        |          | -+-      | +                   | +         | +        | +-              | +-1        | <u> </u> |              | 114        | 4              | $\perp$         | $\perp$   | $\perp$  | L        |          |              |
| ļ                  | (E)             | _        | $\Box$   | $\Box$   | $\Box$    |          |             |          |                 | ]         |                              | 66       | Н               | $\dashv$ | ╁        | +                   | ╁         | +-       | ╁╌              | +          | -        |              | 115<br>116 | $\dashv$       | +               | 1         | ┼        | ╂_       | ــــ     | L            |
| -                  | 18              |          | -        | $\dashv$ | 4         | 4        | 4           | -        | $\perp$         | 1         |                              | 67       |                 |          |          |                     |           | 1        |                 | $\top$     | ŀ        |              | 117        | +              | ┿               | +         | +        | ╀╌       | ╀╌       | -            |
|                    | 19              | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |             | +        | +               | -         |                              | 68<br>69 | Н               | 4        | 4        | $\bot$              | $\perp$   | $\perp$  | $\perp$         | $\Box$     |          |              | 118        |                |                 | $\top$    | †        | +        |          | _            |
|                    | 20              |          |          | $\top$   | $\forall$ | 十        | 十           | +        | +               | 1         | $\vdash$                     | 70       | $\vdash$        | -        | ╁        | +                   | +         | ╀        | +-              | +          | -        |              | 119        | $\perp$        | $\perp$         | $\perp$   | oxdot    | L        |          |              |
|                    | 21              | 4        | $\Box$   | $\perp$  | I         | $\Box$   | I           |          |                 |           |                              | 71       |                 | +        | 十        | ╁                   | ╁╴        | +        | ╁╌              | H          | <br> -   |              | 120<br>121 |                | +-              | +         |          | ╀-       | Ш        |              |
|                    | 22 23           | $\dashv$ | +        | +        | -         |          | -           | 4        | 4               | 1         |                              | 72       |                 |          |          |                     | İ         |          |                 | $\Box$     | 上        |              | 122        | ╁              | +               | ╁         | ╁        | ╁        | $\vdash$ |              |
|                    | 24              | +        | +        | +        | +         | +        | +           | +        | +               | -         |                              | 73       | -               | 4        | $\perp$  | L                   | Į         | $\perp$  | $\Box$          |            |          | $-\Gamma$    | 123        | 1              | İ               | <u> </u>  | $\vdash$ | $\vdash$ | $\vdash$ |              |
|                    | 25              |          |          |          | +         | 十        | +           | +        | +               | ł         | $\vdash$                     | 74<br>75 | $\dashv$        | +        | ╁        | -                   | ╀         | ╀        | +-              | H          | -        |              | 124        |                | $\bot$          |           |          |          |          |              |
|                    | 26              | $\Box$   |          | $\Box$   | I         | $\Box$   |             |          |                 | 1         |                              | 76       | +               | +        | +        | +-                  | ╁         | ╁        | ╁╌              | H          | ⊦        | $\dashv$     | 125<br>126 | -              | +-              | ├_        | Ь.       |          | $\sqcup$ | _            |
|                    | 27<br>28        | +        | 4        | -        | +         | -        | 4           | 4        | ↓_              | ]         |                              | 77       | $\Box$          |          |          |                     |           | T        |                 | $\Box$     | r        |              | 127        | +              | ╁               | ╁╌        | -        | $\vdash$ | $\vdash$ | -            |
| -                  | 29              | +        | +        | ╁        | +         | +        | ┿           | +-       | ╁               | 1         |                              | 78<br>79 | 4               | 4        | 4        | ↓_                  | 1         | 1        | $oxed{\Box}$    |            |          |              | 128        |                |                 |           |          |          |          | _            |
|                    | 30              | I        |          | 土        |           | 1        | 1           | +        | +-              |           |                              | 80       | +               | +        | ╫        | ╀╌                  | ┝         | -        | ┼-              | Н          | $\vdash$ |              | 129        | +              | 1_              |           |          |          |          |              |
|                    | 31              | 4        | 4        | $\perp$  | $\perp$   | $\perp$  | I           | 1.       |                 |           |                              | 81       |                 | $\top$   | +        | T                   | H         | 一        | H               | Н          | -        |              | 130<br>131 | +-             | ╁╴              | $\vdash$  | $\vdash$ | H        | -+       | _            |
| <del>     </del>   | 32<br>33        | ╁        | +-       | +        | +         | ┿        | +           | +        | ↓_              |           |                              | 82       | $\perp$         | _[       | L        |                     |           |          |                 |            |          |              | 132        | 十              |                 | Н         | $\vdash$ | $\vdash$ | +        | -            |
|                    | 34              | +        | +        | +        | ╁         | 十        | ╁           | ╁        | ╁╴              |           |                              | 83<br>84 | -               | - -      | ╂-       |                     | <u> </u>  | L        | Щ               |            |          |              | 133        |                |                 |           |          |          | 士        | 寸            |
|                    | 35              | 1        |          | 1        | I         | 上        | T           | $\perp$  |                 |           |                              | 85       | $\dashv$        | +        | ╁╌       | ┼-                  | -         | -        | Н               | $\dashv$   | -        |              | 134<br>135 | +-             | $\Box$          | Ш         | П        | Ц        | $\dashv$ | $\Box$       |
|                    | 36<br>37        | +        | $\perp$  | $\perp$  | #         | $\bot$   | $\perp$     | $\Box$   | $\Box$          |           |                              | 86       | I               | 士        | $\perp$  |                     |           |          | Н               | $\dashv$   | $\vdash$ |              | 136        | +              | $\vdash$        | $\vdash$  | $\dashv$ |          | $\dashv$ |              |
|                    | 38              | +        | +-       | ╀        | +         | +        | ╀           | +        | +               |           |                              | 87       | 1               | $\bot$   |          |                     |           |          | 口               |            |          | 1            | 37         | <u> </u>       |                 | H         | $\dashv$ |          | $\dashv$ | $\dashv$     |
|                    | 39              | 士        | $\top$   | +        | +         | +        | +-          | +-       | ╁┤              | }         | -+                           | 38<br>39 | +               | +        | 1        | $\vdash$            | Н         | Н        | ⊢∤              | _          | <u> </u> |              | 38         | T              | П               | $\square$ | コ        |          | ユ        |              |
|                    | 40              | I        | T        | I        | I         | I        |             |          | $\Box$          | - }       |                              | 50       | +               | +        | +        | $\vdash$            | Н         | H        | $\vdash \vdash$ | $\dashv$   | $\vdash$ |              | 39<br>40   | +-             | $\vdash$        |           | 4        | _        | $\bot$   | J            |
|                    | 41<br>42        | +        | +        | 1        | $\bot$    | 1        | $\bot$      | L        | $\Box$          |           | - !                          | 91       |                 | 上        |          |                     |           | $\vdash$ |                 | $\dashv$   | -        |              | 41         | +-             | ┝┤              | $\dashv$  | $\dashv$ | -+       | +        | +            |
|                    | 42<br>43        | ╁        | ╁        | +        | +         | +        | +-          | +        | ╀┤              | -  -      |                              | 22       | $\bot$          | 丰        |          | П                   |           |          |                 | $\Box$     |          | 1            | 42         | 1              |                 | $\dashv$  | $\dashv$ | +        | +        | ╅            |
|                    | 44              | T        | +-       | 1        | †         | +        | +           | +-       | +               | ŀ         |                              | 33       | +               | +-       | +        | $\vdash \downarrow$ |           |          |                 | _          |          | 1            | 43         |                |                 | $\Box$    | ゴ        |          | 士        | 1            |
|                    | 45              | L        | L        | I        |           |          | Γ           |          | H               | ŀ         | - 1 3                        | 5        | +               | +-       | $\vdash$ | $\dashv$            | -         | $\dashv$ | $\dashv$        | $\dashv$   | -        |              | 44<br>45   | $\vdash$       | $\sqcup$        | 4         | 4        | $\bot$   | 丰        | $\bot$       |
|                    | 46              | L        | 1        | Ļ        | Ľ         | L        | $\sqsubset$ | Г        | 口               |           | 9                            | 6        | 士               | 1        | $\Box$   | $\dashv$            | 寸         | 7        | $\dashv$        | $\dashv$   | $\vdash$ |              | 46         | $\dashv\dashv$ | $\vdash \vdash$ | +         | $\dashv$ | $\dashv$ | +        | -            |
|                    | 47<br>48        | +        | ╀        | +        | -         | +-       | -           | _        | $\sqcup$        | _[        |                              | 7        | I               | T        |          |                     |           | _        |                 | <b>I</b> - | -[=      | 1            | 47         | 1-1            | H               | $\dashv$  | +        | +        | +        | +            |
|                    | 49              | +=       | T        | F        | F         | 1-       | F           | F        | $\vdash \vdash$ | F         |                              | 8        | +               | -        | Н        | 4                   | 4         | $\dashv$ | $ \downarrow$   | _]         |          | 1            | 48         |                |                 | 士         | 寸        | _        | 士        | +            |
|                    | 50              | 1        | +        | 1-       | 1         | +        | 1           | ╁        | $\vdash$        | -         |                              | 00       | +               | +-       | $\vdash$ | -4                  | 4         | 4        | 4               | _          | <u></u>  |              | 49<br>50   | $\perp 1$      | LT              | Т         | Т        | T        | $\top$   | $\top$       |